



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE  STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/770,270		
		Filing Date	February 2, 2004		
		First Named Inventor	Steven A. Kunsman		
		Art Unit	2125		
		Examiner Name	Paul L. Rodriguez		
Sheet	2	of	5	Attorney Docket Number	E20000120

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PKL		BUCHHOLZ et al; High Impedance Fault Detection Device Tester; Journal IEEE Transactions on Power Delivery, Vol. 11, No. 1, January 1996, Powertech Labs Inc., Surrey, B.C. Canada V3W 7R7	
PKL		RUSSELL et al; Arcing Fault Detection for Distribution Feeders: Security..., Journal IEEE Transactions on Power Delivery, Vol. 10, No. 2, April 1995; Power System Automation Lab, Texas	
PKL		EBRON et al; A Neural Network Approach To The Detection of Incipient Faults on Power Distribution Feeders; IEEE Transactions on Power Delivery, Vol. 5, No. 2, April 1990; Electric Power Research Center, Raleigh, NC	
PKL		RUSSELL et al; An Arcing Fault Detection Technique Using Low Frequency Current Components - Performance Evaluation Using Recorded Field Data; Journal IEEE Transactions on Power Delivery	
		Vol. 3, No. 4, October 1988; Texas A&M University, College Station, Texas	
PKL		BENNER et al; Practical High Impedance Fault Detection for Distribution Feeders; IEEE Transactions on Power Delivery, Vol. 33, No. 3, pp.635-640, May/June 1997; Power System Automation Laboratory, College Station, Texas	
PKL		LAZKANO et al; A New Approach To High Impedance Fault Detection Using Wavelet Packet Analysis; Proceedings of Ninth International Conference on Harmonics & Quality of Power, Vol. 3, pp. 1005-1010, 2000.	

Examiner Signature		Date Considered	1/6/05
--------------------	---	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/770,270		
		Filing Date	February 2, 2004		
		First Named Inventor	Steven A. Kunsman		
		Art Unit	2125		
		Examiner Name	Paul L. Rodriguez		
Sheet	3	of	5	Attorney Docket Number	E20000120

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>ML</i>		RUSSELL et al; Performance of high-impedance fault detection algorithms in long-term field trials; Elsevier Science S.A. Power System Automation Laboratory, College Station, TX 77843	
<i>ML</i>		C.J. KIM et al; Classification of Faults and Switching Events by Inductive Reasoning and Expert System Methodology; Journal IEEE Transactions on Power Delivery, Vol. 4, No. 3, July 1989; Texas A&M University; College Station, Texas 77843	
<i>ML</i>		A.M. SHARAF et al; A Third Harmonic Sequence Ann Based Detection Scheme For High Impedance Faults; Canadian Conference on Electrical and Computer Engineering; University of New Brunswick, Canada	
<i>ML</i>		J.T. Tengdin et al; Application of High Impedance Fault Detectors; A Summary of the Panel Session Held at the 1995 IEEE PES Summer Meeting	
<i>ML</i>		M. AL-DABBAGH et al; Neural Networks Based Algorithm For Detecting High Impedance Faults on Power Distribution Lines; 1999 IEEE; Department of Electrical and Communication Engineering; Papua, New Guinea	
<i>ML</i>		L.A. SNIDER et al; The Artificial Neural Networks Based Relay Algorithm For Distribution System High Impedance Fault Detection; Journal from Proceedings of the 4th International Conference on Advances in Power System Control, Operation and Management, APSCOM-97, Hong Kong, November 1997.	

Examiner Signature	<i>Paul L. Rodriguez</i>	Date Considered	1/5/06
--------------------	--------------------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/770,270		
		Filing Date	February 2, 2004		
		First Named Inventor	Steven A. Kunsman		
		Art Unit	2125		
		Examiner Name	Paul L. Rodriguez		
Sheet	4	of	5	Attorney Docket Number	E20000120

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PMR		R. PATTERSON et al; A Microprocessor-based Digital Feeder Monitor with High-Impedance Fault Detection; Forty-Seventh Annual Conference for Protective Relay Engineers; GE Protection and Control, Malvern, PA; Dept. of Electrical Engineering Texas A&M University, College Station, Texas	
PMR		C.J. KIM et al; A Parameter-Based Process For Selecting High Impedance Fault Detection Techniques Using Decision Making Under Incomplete Knowledge; Journal IEEE Transaction on Power Delivery, Vol. 5, No. 3, July 1990; Texas A&M University, College Station, Texas 77843	
PMR		C.J. KIM et al; A Learning Method For Use In Intelligent Computer Relays For High Impedance Faults; Journal IEEE Transactions on Power Delivery, Vol. 6, No. 1, January 1991; Texas A&M University, College Station, Texas 77843	
PMR		C.J. KIM et al; High-impedance fault detection system using an adaptive element model; Journal IEEE Proceedings-C, Vol. 140, No. 2, March 1993; Department of Electrical Engineering, Texas A&M University, College Station, Texas 77843	
PMR		RON PATTERSON; Signatures and Software Find High-Impedance Faults; IEEE Computer Applications in Power, July 1995	
PMR		CARL L. BENNER et al; Practical High-Impedance Fault Detection on Distribution Feeders; IEEE Transactions on Industry Applications, Vol. 33, No. 3, May/June 1997	

Examiner Signature		Date Considered	1/5/06
--------------------	---	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/770,270
Filing Date	February 2, 2004
First Named Inventor	Steven A. Kunsman
Art Unit	2125
Examiner Name	Paul L. Rodriguez
Attorney Docket Number	E20000120

Sheet

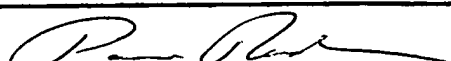
5

of

5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PM		DAVID C. YU et al; An Adaptive High and Low Impedance Fault Detection Method; Journal IEEE Transactions on Power Delivery, Vol. 9, No. 4, October 1994; University of Wisconsin-Milwaukee	
		Milwaukee, WI 53201; Puget Sound Power & Light Company, Bellevue, WA 98004	
PM		B. MICHAEL AUCOIN et al; High Impedance Fault Detection Implementation Issues; Journal IEEE Transactions on Power Delivery, Vol. 11, No. 1, January 1996; Texas A&M University,	
		College Station, TX 77843; Rochester Gas and Electric, Rochester, NY 14649	

Examiner  
SignatureDate  
Considered

1/5/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.